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APPLICATION NO.	F	ILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/796,750		03/08/2004	Vasisht Mantra Vadi	X-1292 US	2526
24309	7590	10/31/2005		EXAMINER	
XILINX, I			PHAN, TRONG Q		
	ATTN: LEGAL DEPARTMENT 2100 LOGIC DR				PAPER NUMBER
SAN JOSE, CA 95124				2827	

DATE MAILED: 10/31/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

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		Application No.	Applicant(s)	,
		10/796,750	VADI ET AL.	
	Office Action Summary	Examiner	Art Unit	
	·	TRONG PHAN	2827	
Period fo	The MAILING DATE of this communication app or Reply	pears on the cover sheet with the c	orrespondence address	
A SH WHIC - Exter after - If NC - Failu Any (ORTENED STATUTORY PERIOD FOR REPLY CHEVER IS LONGER, FROM THE MAILING Donsions of time may be available under the provisions of 37 CFR 1.1 SIX (6) MONTHS from the mailing date of this communication. Operiod for reply is specified above, the maximum statutory period were to reply within the set or extended period for reply will, by statute reply received by the Office later than three months after the mailing ed patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tir will apply and will expire SIX (6) MONTHS from to cause the application to become ABANDONE	N. nely filed the mailing date of this communi ED (35 U.S.C. § 133).	
Status				
1)⊠ 2a)□ 3)□	Responsive to communication(s) filed on <u>08 M</u> This action is FINAL . 2b) This Since this application is in condition for allowar closed in accordance with the practice under E	action is non-final. nce except for formal matters, pro		its is
Dispositi	ion of Claims			
5)	Claim(s) are subject to restriction and/o ion Papers The specification is objected to by the Examine The drawing(s) filed on is/are: a) acc Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct	vn from consideration. or election requirement. er. epted or b) □ objected to by the drawing(s) be held in abeyance. Se tion is required if the drawing(s) is objected to by the drawing(s).	e 37 CFR 1.85(a). njected to. See 37 CFR 1.1	
,	The oath or declaration is objected to by the Ex	kaminer. Note the attached Office	Action or form P10-15	2.
12) <u>□</u> a)	Acknowledgment is made of a claim for foreign All b) Some * c) None of: 1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority application from the International Bureau See the attached detailed Office action for a list	s have been received. s have been received in Applicat rity documents have been receive u (PCT Rule 17.2(a)).	ion No ed in this National Stage	Э
2) ☐ Notic 3) ⊠∕Inforr	t(s) se of References Cited (PTO-892) se of Draftsperson's Patent Drawing Review (PTO-948) smation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) or No(s)/Mail Date 6/10/04.	4) Interview Summary Paper No(s)/Mail D 5) Notice of Informal F 6) Other:		

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DETAILED ACTION

Drawings

1. The drawings are objected to under 37 CFR 1.83(a). The drawings must show every feature of the invention specified in the claims. Therefore, the features as recited in claims 9-10, 23, 33 and 37 must be shown or the feature(s) canceled from the claim(s). No new matter should be entered.

Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. The figure or figure number of an amended drawing should not be labeled as "amended." If a drawing figure is to be canceled, the appropriate figure must be removed from the replacement sheet, and where necessary, the remaining figures must be renumbered and appropriate changes made to the brief description of the several views of the drawings for consistency. Additional replacement sheets may be necessary to show the renumbering of the remaining figures. Each drawing sheet submitted after the filing date of an application must be labeled in the top margin as either "Replacement Sheet" or "New Sheet" pursuant to 37 CFR 1.121(d). If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

Claim Objections

2. Non-selected claims 43-47 should be canceled in response to this office action.

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Appropriate correction is required.

Claim Rejections - 35 USC § 112

3. The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

4. Claims 1-42 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the enablement requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to enable one skilled in the art to which it pertains, or with which it is most nearly connected, to make and/or use the invention.

It is not understood how the logic 8000 in Fig. 8 can be one embodiment of logic 500 of Fig. 5 as described in lines 1-2 of paragraph [0057], page 20 since Fig. 5 does not show any logic 500; WR-EN, POR, PCH and PDCH as shown in Fig. 8; PCH, WR-EN, POR, PDCH, POR and PDCH as shown in Fig. 9.

It is not understood what "To next row" as shown in Figs. 5B, 12 and 13B and as recited in claims 38 and 40-42 will really be the next selected row.

It is not understood what type of data propagation only in a first direction from the second row segment to the row segment during a read operation and only in a second direction from the first row segment to the second row segment during a write operation as recited in claims 1-42 really are since there are a plurality of row segments 212 in Fig. 2 of the present invention. How the data is propagated in the remaining row segments?

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The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

5. Claims 4, 19, 25, 38 and 40-42 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claim 4, it is not clear how data can be propagated when the first dataline segment is not connected to the second dataline segment.

Claim 19, it is not clear how data can be propagated when the first and second portions of the logic circuit are not associated with any one row.

Claim 25, it is not clear what type of logical combination of a control signal and a data on the dataline segment in the second adjacent row segment really is since there are a plurality of row segments and dataline drivers.

Claims 38 and 40-42, it is not clear what a next row really is since there are a plurality of row segments recited.

Claim Rejections - 35 USC § 103

- 6. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 7. Claims 1-42 are, insofar as understood rejected under 35 U.S.C. 103(a) as being unpatentable over Irrinki et al., 5,847,990.

Irrinki et al., 5,847,990, discloses in Fig. 2 a memory device 202 comprising:

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a plurality of row segments 210-1 to 210-m;

bidirectional gate 204 for driving the write data path and a read data path in response to write/read control signal (see lines 11-12, column 5) and obviously be considered connected between row segments through respective sense amplifiers 214-1 to 214-m and analog-to-digital A/D circuit 216-1 to 216-m.

Since the subject matter of the claimed invention as recited in claims 1-42 is not understood as rejected under 112, first and second paragraphs, all the remaining features as recited in claims 1-42 are also rendered obvious under 35 USC 103(a) over Fig.2 of Irrinki et al., 5,847,990.

Conclusion

8. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Pfeiffer et al., 6,859,411, Hanji et al., 6,873,556,Tsuji, 6,747,910, Lin et al., 6,621,756, Raad, 6,577,521, and Iwahashi et al., 6,856,574.

9. Any inquiry concerning this communication or earlier communications from the examiner should be directed to TRONG PHAN whose telephone number is (571) 272-1794. The examiner can normally be reached on M-F (8:30-5:00).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, HOAI HO can be reached on (571)272-1777. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

TRONG PHAN
PRIMARY EXAMINER

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